

Azure Developer Community Call

Cloud native Ask me Anything
October 6th 2022

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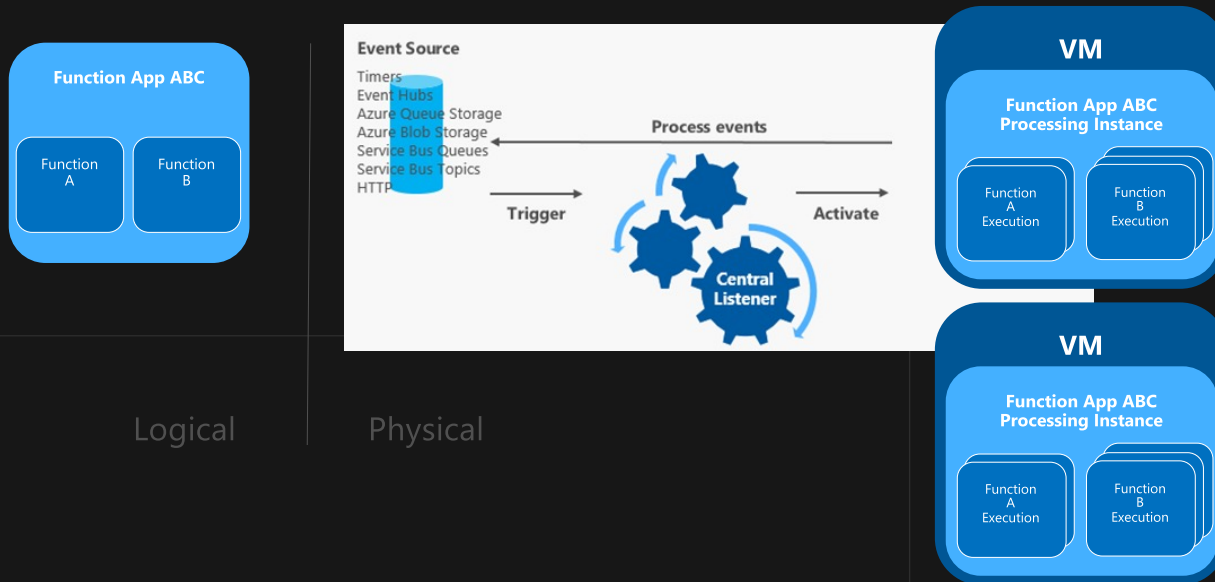
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Cloud native ask me anything

Function scalability



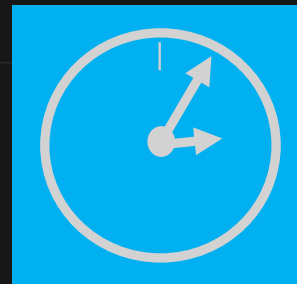
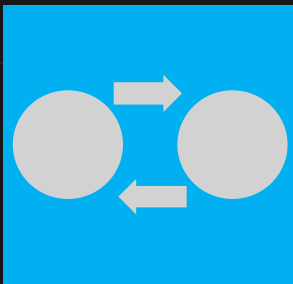
Logical

Physical

Function best practices

- Functions should do one action
- Functions should be stateless
- Functions should finish quickly
- Functions should be idempotent

A large white number '1' on a blue square background, representing the principle that functions should do one action.



Function design considerations

Design carefully

Memory: Functions in a Function App share memory.

Disk: Avoid disk access for perf critical work.

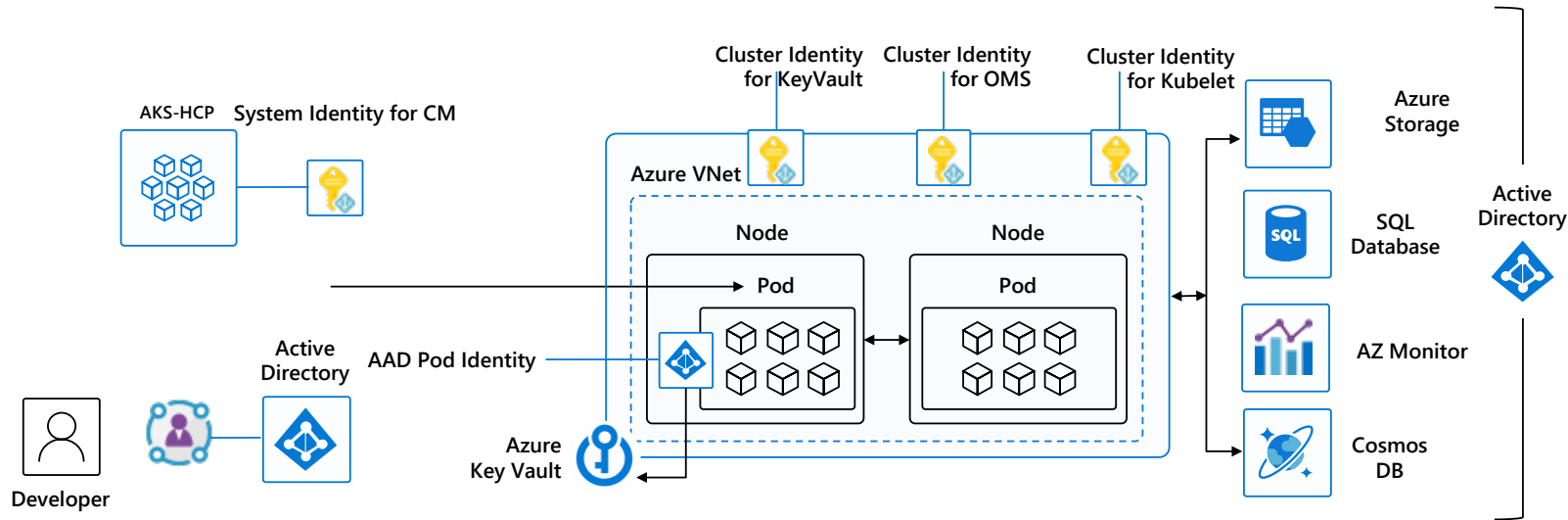
Connections (outbound): Bindings use connection pooling by default.
If you are writing your own connections use connection pooling.

Compose mindfully

Composing services should consider bandwidth alignment and ratios for max throughput.

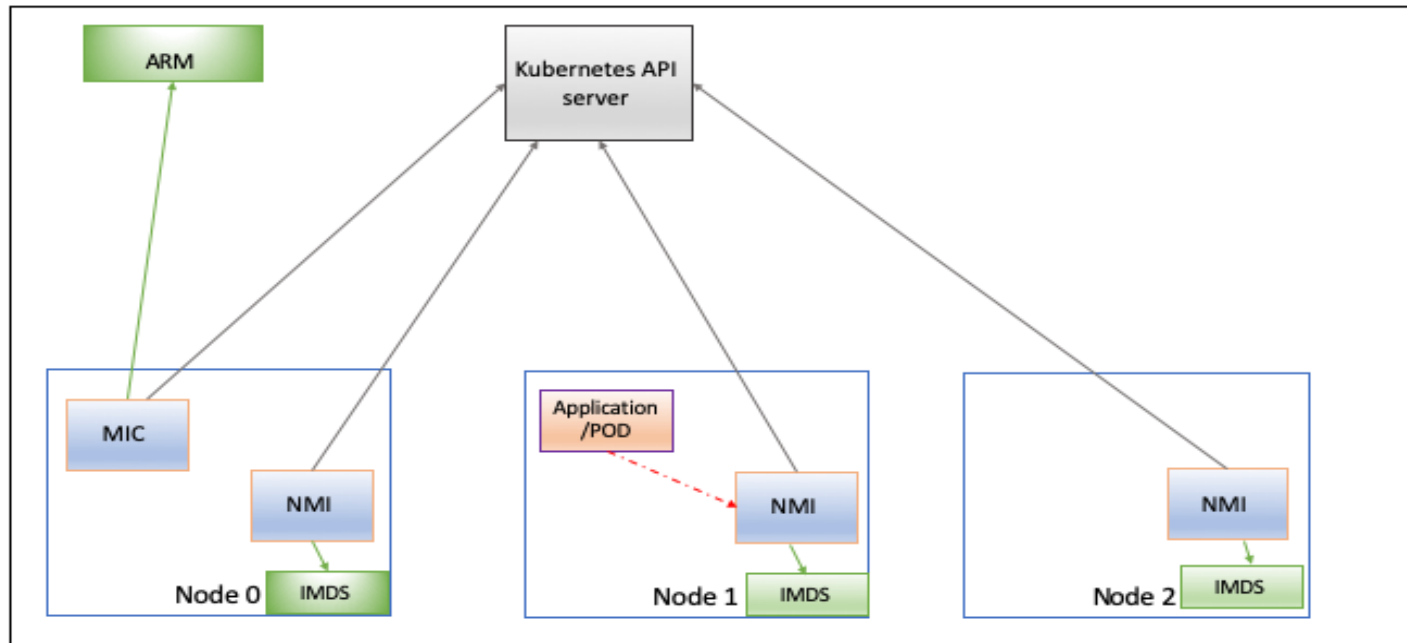
Use batching, aggregation, and sampling for throughput alignment.

Identities in a cluster

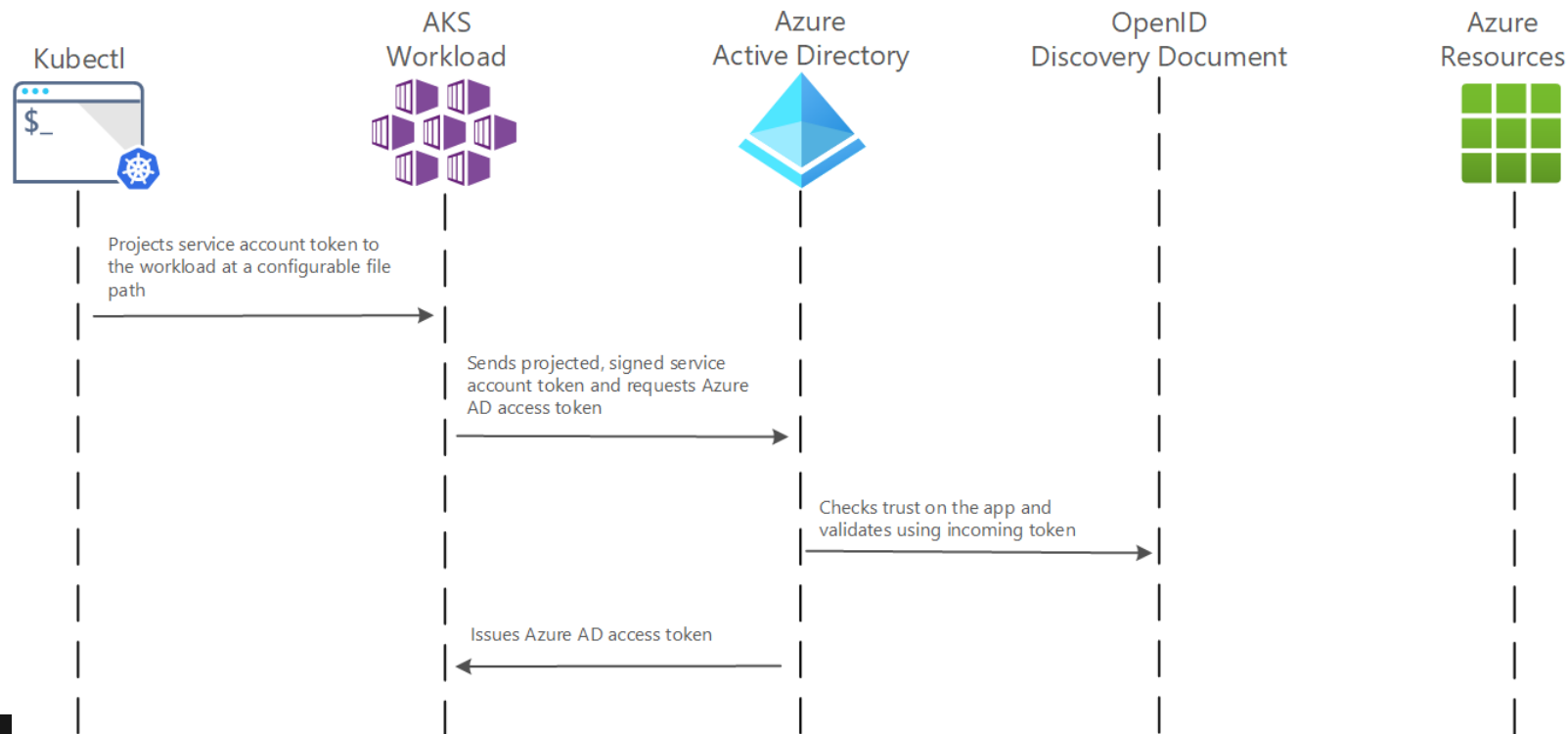


Pod identity

Aad pod identity architecture

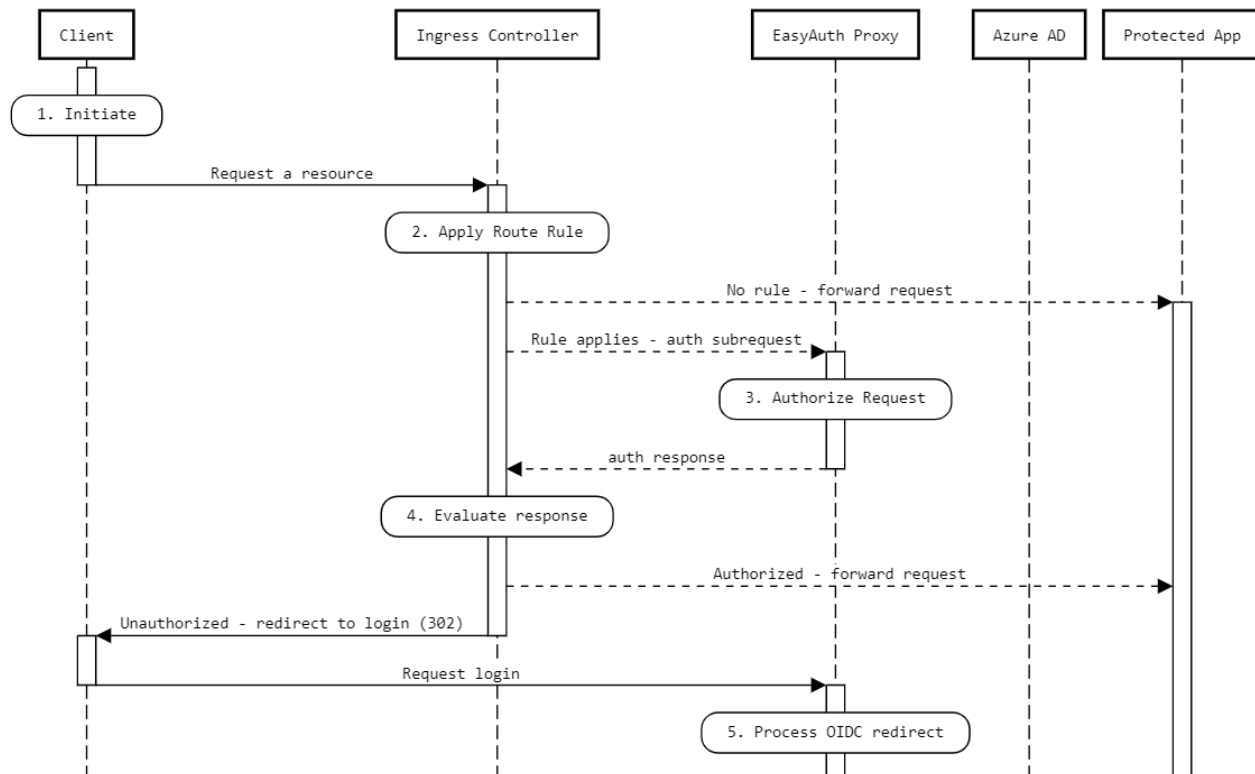


Workload identity

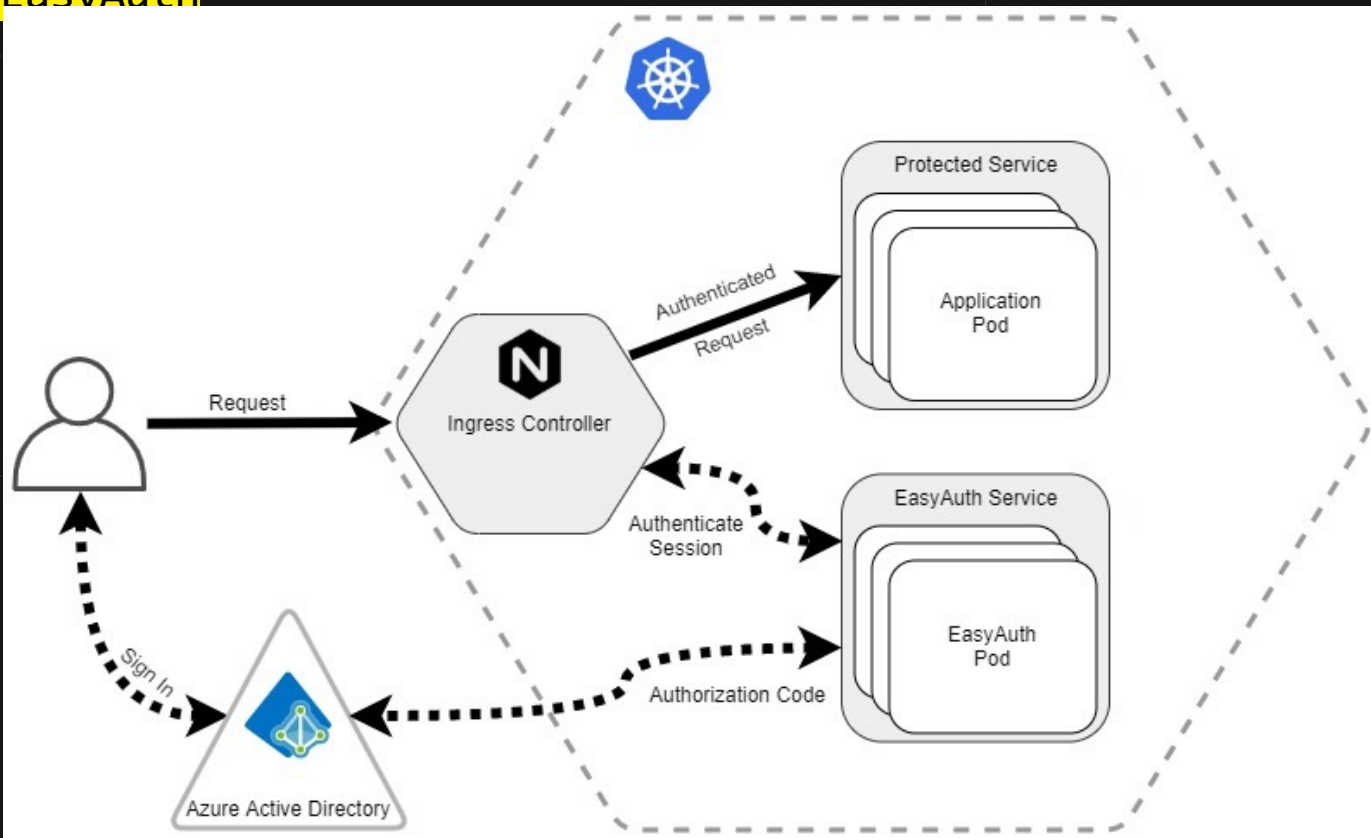


EasyAuth

Detailed Flow



EasvAuth



Auth with Dapr

Dapr Building Blocks

- 1 – Service to service
- 2 – State store
- 3 – Pub/Sub messaging
- 4 – Output bindings
- 5 – Middleware

